



NASA'S TECHNOLOGY INFUSION  
**ROAD TOUR**

*Historically Black Colleges/Universities & Minority Serving Institutions*

**NEW MEXICO STATE UNIVERSITY**

**Sustainable Water and Wastewater  
Treatment Technologies**

**Pei Xu**

**8-13-2019**



# Research Areas



NSF

DOE

BoR

NMED

NASA

NIH

## Water and Wastewater Systems

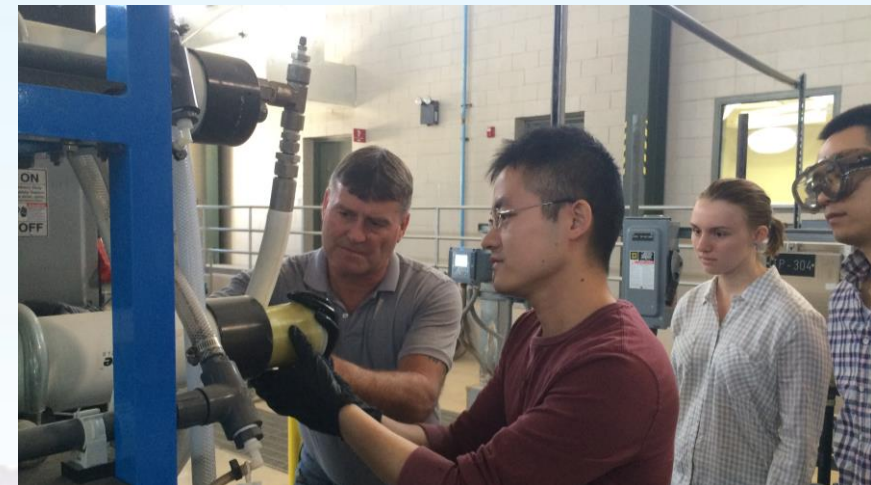
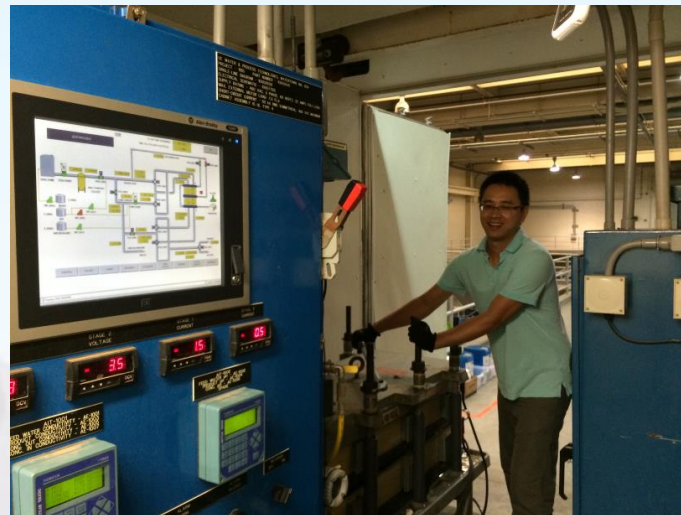
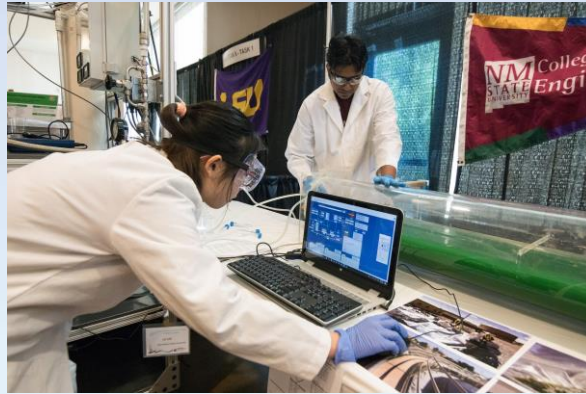
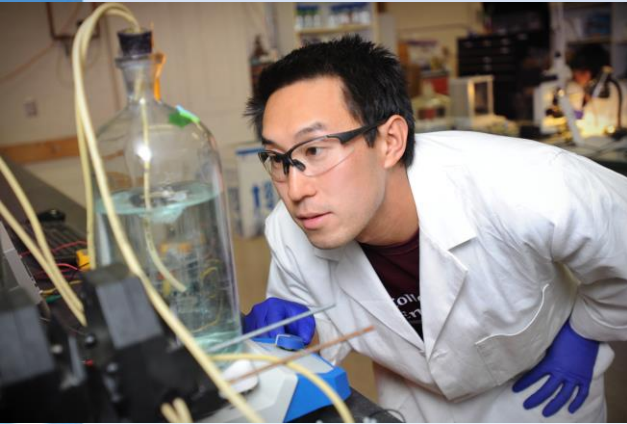
- Water quality
- Wastewater treatment and reuse
- Membrane processes & desalination
- Water and energy
- Resources recovery

NMWRRI

Industry  
/Water  
Utilities

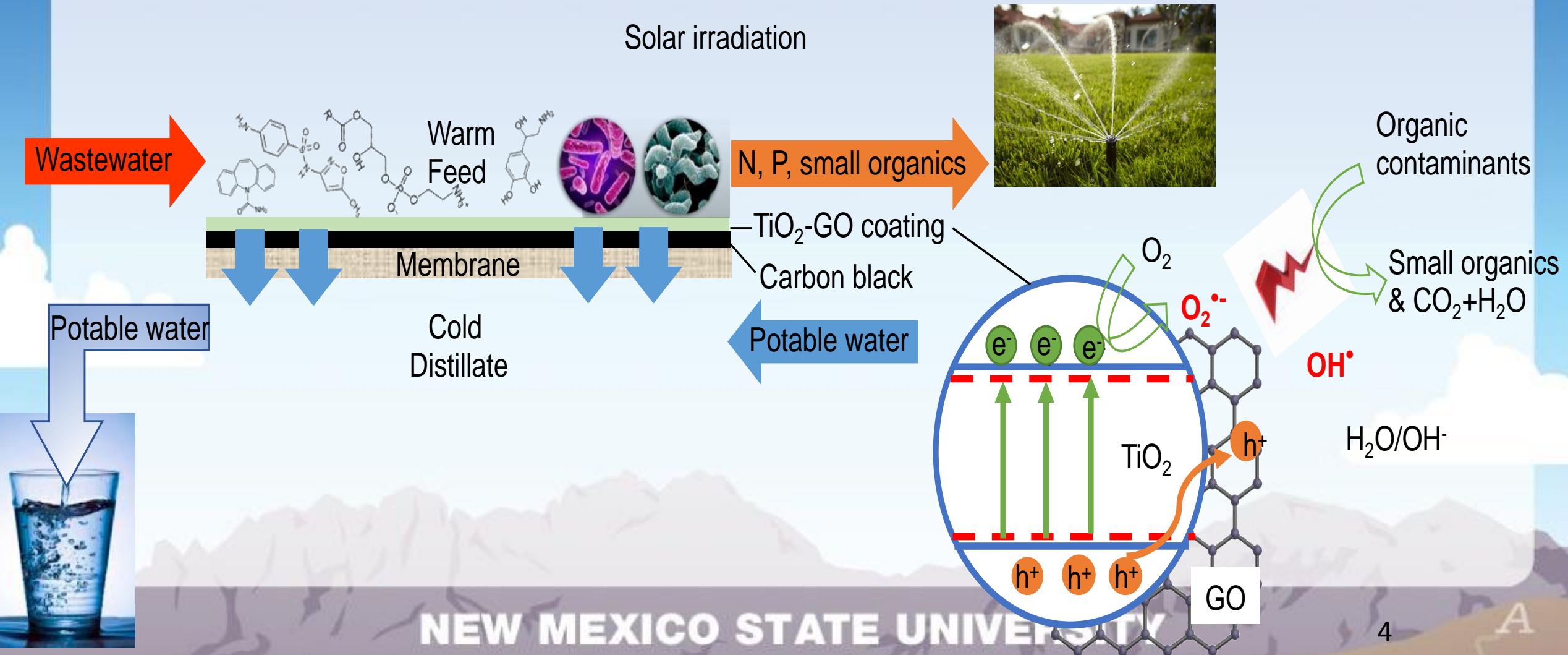


# From Fundamental Laboratory Study to Field Demonstration





# Photocatalytic Membrane Distillation for Closed-loop Water Recovery



# Thank you! See you in the Lab Tour!

*[pxu@nmsu.edu](mailto:pxu@nmsu.edu)*